What Is Claimed Is:

1. An SPR sensor plate, comprising:

an optical waveguide for allowing light from a light source to pass therethrough; and a sensing metal film formed on part of a surface of the optical waveguide,

wherein said optical waveguide has reflecting metal films formed on opposite end surfaces thereof except for a light incident surface and a light exit surface, and

at least one of said incident surface and exit surface

10 is inclined through a predetermined inclination.

- 2. The SPR sensor plate according to Claim 1, further comprising at least two sets of said incident surface and the corresponding exit surface.
- 3. The SPR sensor plate according to Claim 1, wherein said incident surface and the corresponding exit surface are formed on a same end surface side.
- 4. The SPR sensor plate according to Claim 1, wherein said incident surface and the corresponding exit surface are formed on different end surface sides.
- 5. The SPR sensor plate according to Claims 1, wherein said inclined surfaces have a same inclination.
- 6. The SPR sensor plate according to Claims 1, wherein said reflecting metal films are parallel with one another.
- 7. The SPR sensor plate according to Claims 1, wherein said sensing metal film is formed of Au, Ag, or Ni.

- 8. The SPR sensor plate according to Claim 7, wherein said sensing metal film is formed in said optical waveguide via a Cr film.
- 9. The SPR sensor plate according to Claims 1, wherein said reflecting metal film is formed of Au, Ag, or Al.
- 10. The SPR sensor plate according to Claims 1, wherein a hydrophobic film is formed around said sensing metal film constituting a part of the surface of said optical waveguide.
- 11. The SPR sensor plate according to Claim 10, wherein said hydrophobic film is a fluorine-based resin film.
- 12. An immune reaction measuring instrument using an SPR sensor plate according to Claims 1.
- 13. The immune reaction measuring instrument according to Claim 12, comprising at least two of said SPR sensor plates.